



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS  
REGISTRATION DIVISION (7505P)

DP BARCODE No.: D405111  
PC CODE: 109702,004006  
FOOD USE: NO

FILE SYMBOL NO.: 4822-LOA  
ACTION CODE: R 310  
PRODUCT NAME: Raid Ant & Roach 26

DECISION No.: 468707

**DATE OUT:** February 20, 2013

**SUBJECT:** End Use Product Chemistry Review  
Product Name: Raid Ant & Roach 26

**FROM:** Bruce F. Kitchens, Chemist  
Product Chemistry Team  
Technical Review Branch/RD (7505P)

**TO:** RM 10, Richard Gebken/Linda DeLuise  
Branch/RD (7505P)

*Bruce F. Kitchens*  
*20 Feb 2013*  
*SFBm 2/21/13*

**INTRODUCTION:**

The registrant, S.C. Johnson & Son Incorporated, is submitting an application to register the proposed end-use product, Raid Ant & Roach 26. The active ingredients in this product are Cypermethrin and Imiprothrin at label nominal concentrations of 0.1 and 0.06% a.i., respectively. This product is intended for use as an insecticide. In support of this request, the registrant is submitting a proposed basic and seven alternate (1-7) Confidential Statements of Formula (CSF) all dated 13 Aug 2012, a draft label and product chemistry data contained in MRID#s 489102-01, 489102-02 and 489102-03. The Technical Review Branch (TRB) has been asked to review this submission.

**SUMMARY OF FINDINGS:**

1. Name of Active Ingredients: Cypermethrin (0.10% ai)  
Imiprothrin (0.06% ai)

Formulation Type: Aerosol

2. Has the registrant claimed substantial similarity to a registered product?

[ ] Yes; [X] No

3. All of the source materials of the active ingredient are derived from registered sources- [X] Yes [ ] No

4. All inert ingredients have been screened by IIAB and are approved for the proposed labeled uses.

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5. Confidential Statement of Formula:

☒ Basic - Dated: 13 Aug 2012  
☐ Alternate (1-7) – Dated: 13 Aug 2012

6. Product label

- a. Ingredient statement: Nominal concentration of AI listed on CSF concurs with product label (PR Notice 91-2).

☒ Yes, if not, explain below:

Is the sub statement in compliance with PR Notice 97-6 (inert ingredient vs other ingredient)

☒ Yes; ☐ No; if not, explain below

Metallic equivalent: ☐ Yes ☒ NA  
Soluble arsenic: ☐ Yes ☒ NA  
Isomeric ratios: ☐ Yes ☒ NA  
Acid Equivalent: ☐ Yes ☒ NA

- b. Health related sub statements: Product contains?

Petroleum distillate at > 10%: ☒ Yes; ☐ No; ☐ NA  
Methanol at > 4%: ☐ Yes; ☐ No; ☒ NA  
Sodium nitrate/sodium nitrite ☐ Yes; ☐ No; ☒ NA

- c. Physical chemical hazard statement: Product label requires a statement per 40 CFR §156.78 for: flammability, explosive potential or electric insulator breakdown?

☒ Yes ☐ No

Is the sub statement in compliance with PR Notice 98-6 (Total Release Fogger)?

☐ Yes; ☐ No; ☒ NA; if not, explain below

- d. Label requires an additional Storage and Disposal statement: ☐ Yes ☒ No; if yes explain below:

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7. Group A: Product Chemistry Data

TRB's determination of the acceptability for the proposed product is listed in the tables below.

Guideline No.	Study Title		Data submitted		TRB's Assessment of Data	MRID Nos.
			Yes	No		
830.1550	Product Identity & Composition		X		A	489102-01
830.1600	Description of materials used to produce the product		X		A	489102-01
830.1650	Description of formulation process		X		A	489102-01
830.1670	Discussion on the formation of impurities		X		A	489102-01
830.1700	Preliminary analysis			X	N/A	
830.1750	Certified limits (158.350)	Standard certified limits	X		A	see basic csf 8/13/12
		Proposed Limits				
		Justification for wider limits				
830.1800	Enforcement analytical method		X		A	489102-01

A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver Request, I = In Progress, NA = Not Applicable; U = Upgradeable.

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8. Group B:

Guideline No.	Study Title	Value or Qualitative Description	TRB's Assessment of Data	MRID Nos.
830.6303	Physical State	Yellow liquid with flower like odor	A	489102-02
830.6315	Flammability	Flame extension = 73.7 cm no flashback observed	A	489102-03
830.6316	Explosibility	Product does not contain explosive components	N/A	
830.7000	pH	6.11	A	489102-02 489102-03
830.7300	Density (units)	0.9843 g/ml	A	489102-03

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U = Upgradeable.

Data generated for the physical and chemical properties data requirements were determined on the aerosol intermediate without propellant and the aerosol mixture.

Data submitted for Oxidation/Reduction: Chemical Incompatibility did not address reduction.

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## **CONCLUSIONS:**

The TRB has reviewed the product chemistry data submitted for the proposed end-use product and has concluded that:

1. The basic formula CSF for the proposed end-use product, Raid Ant & Roach 26 dated 13 Aug 2012 is acceptable.

The proposed alternate formula CSFs (1-7) for the end-use product, Raid Ant & Roach 26 all dated 13 Aug 2012 are acceptable.

2. This submission satisfies the data requirements as specified in 40 CFR 158.320, 158.325, 158.335, 158.340, 158.350, and 158.355 with respect to product identity and composition, description of materials used to produce the product, description of formulation process, discussion of formation of impurities, certified limits, and enforcement analytical method.
3. This submission satisfies the data requirements as specified in 40 CFR 158.310 with respect to physical and chemical properties except for oxidation/reduction: chemical incompatibility, storage stability and corrosion characteristics. Inform the registrant that the reduction of the end-use product must be evaluated and submitted to the Agency. One year studies are in progress to satisfy the data requirements for storage stability and corrosion characteristics.
4. The proposed alternate formulations for the end-use product, Raid Ant & Roach 26 meet the criteria specified in 40 CFR 152.43 with respect to alternate formulations.